

ABSTRACT OF THE DISCLOSURE

A hybrid hydraulic system for a work vehicle is provided that includes a first fixed displacement hydraulic pump whose outlet is connected to a priority valve. The priority valve, in turn, directs the pump's flow to a first group of closed center backhoe valves on a primary circuit and a second group of open center loader valves on a secondary circuit. A second hydraulic pump is provided with independent load sensing capability to supplement fluid flow provided by the first pump.